ABSTRACT

Random sample subsets are selected from an image. The RANSAC algorithm is used to perform robust matching between the samples of a captured image and like

5   samples of stored images. By selecting enough samples the likelihood that all samples will be affected by lighting changes is less and therefore it is more likely that a match will be found even in the case of different lighting in the captured image than the stored images. Additionally a weighted sampling technique is used which selects samples based on likelihood of being affected by lighting changes.

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